

Internation I Application No PCT/US2005/005953

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D305/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic d	ata base consulted during the international search (name of data bas	se and, where practical, search terms used)	
	ternal, WPI Data, PAJ, BEILSTEIN Da		
C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT		Dalamaka alatai Na
Category *	Citation of document, with indication, where appropriate, of the rel	evant passages .	Relevant to claim No.
Υ	US 5 808 113 A (MURRAY ET AL) 15 September 1998 (1998-09-15) cited in the application		4-6
	the whole document	:	
Y .	US 5 319 112 A (KINGSTON ET AL) 7 June 1994 (1994-06-07) the whole document		4-6
Y	COMMERCON A ET AL: "IMPROVED PR AND ESTERIFICATION OF A PRECURSO TAXOTERE AND TAXOL SIDE CHAINS" TETRAHEDRON LETTERS, ELSEVIER SC PUBLISHERS, AMSTERDAM, NL, vol. 33, no. 36, 1992, pages 518 XP000650710 ISSN: 0040-4039 page 5186, step (b)	R OF THE IENCE	4-6
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X Fur	ther documents are listed in the continuation of box C.	Patent family members are listed	in annex.
"A" docum consi "E" earlier	ategories of clied documents : ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international	"T later document published after the inte or priority date and not in conflict with cited to understand the principle or th invention "X" document of particular relevance; the	the application but early underlying the
which	date ent which may throw doubts on priority claim(s) or n is cited to establish the publication date of another on or other special reason (as specified) nent referring to an oral disclosure, use, exhibition or	cannot be considered novel or carno involve an inventive step when the document of particular relevance; the cannot be considered to involve an indocument is combined with one or much the other beautiful and the other based on the cannot be considered to involve an indocument is combined with one or much as the other based on the cannot be cannot be carnot be carn	claimed Invention ventive step when the ore other such docu-
other "P" docum	means tent published prior to the international filling date but than the priority date claimed	ments, such combination being obvio in the art. "8" document member of the same patent	
	actual completion of the international search	Date of mailing of the International sea	arch report
1	13 July 2005	1 4. 09. 05	
Name and	mailing address of the ISA	Authorized officer	
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijsvijk Tel. (+31-70) 340-3040, Tx. 31 651 epo nl, Fax. (+31-70) 340-3018	Hanisch, I	
			

INTERNATIONAL SEARCH REPORT

Internal Application No PCT/US2005/005953

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	tion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Category *	Citation of document, with indication, where appropriate, or the relevant passages		
Υ	PINES S H ET AL: "The Stereochemistry of 2,3-Diphenyl-1-methylpropylamine" JOURNAL OF MEDICINAL CHEMISTRY, vol. 10, no. 4, 1967, pages 725-728, XP002335874 page 726, column 1, last paragraph - column 2, paragraph 2 page 728; compounds IA-ID	4-6	
A	MURRAY C K ET AL: "An Improved Method for Separating Paclitaxel and Cephalomannine Using Ozone and Girard Reagents" JOURNAL OF ORGANIC CHEMISTRY, vol. 61, 1996, pages 9038-9040, XP002335875 page 9038	1-12	
A	KINGSTON D G I ET AL: "An Improved Method for the Separation of Paclitaxel and Cephalomannine" JOURNAL OF NATURAL PRODUCTS, vol. 59, 1996, pages 167-168, XP002335876 the whole document	1-12	
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INTERNATIONAL SEARCH REPORT



Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of Invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-12
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-12

The preparation of paclitaxel and docetaxel from cephalomannine via the present primary amine taxane intermediate

2. claims: 13-17

The preparation of paclitaxel and docetaxel starting from cinnamoyl halide

3. claim: 18

The preparation of docetaxel from cephalomannine not via the primary amine taxane intermediate

INTERNATIONAL SEARCH REPORT

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	Interna Application No
١	PCT/US2005/005953

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5808113	A	15-09-1998	US AU AU CA EP JP WO	5679807 A 694627 B2 5021096 A 2211799 A1 0852581 A1 11502516 T 9623780 A1	21-10-1997 23-07-1998 21-08-1996 08-08-1996 15-07-1998 02-03-1999 08-08-1996
US 5319112	Α	07-06-1994	US	5470866 A	28-11-1995